

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Claudia Cervantes

Turf and Ivy Solutions

5 Centerpointe Drive

Suite 400

Lake Oswego, OR 97035

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**JOB DESCRIPTION**

Lead Testing

**JOB NUMBER**

820-11608-1

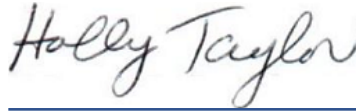
# Eurofins Lubbock

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



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Authorized for release by  
Holly Taylor, Project Manager  
[Holly.Taylor@et.eurofinsus.com](mailto:Holly.Taylor@et.eurofinsus.com)  
(806)794-1296



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# Definitions/Glossary

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Turf and Ivy Solutions  
Project: Lead Testing

Job ID: 820-11608-1

**Job ID: 820-11608-1**

**Eurofins Lubbock**

## Job Narrative 820-11608-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The sample was received on 1/9/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lubbock

# Client Sample Results

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

**Client Sample ID: Black Pearl**

**Lab Sample ID: 820-11608-1**

Date Collected: 01/05/24 15:00

Matrix: Solid

Date Received: 01/09/24 10:00

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.622	U	1.96	0.622	mg/Kg		01/17/24 00:12	01/17/24 14:41	10

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# QC Sample Results

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 860-140843/1-A**  
**Matrix: Solid**  
**Analysis Batch: 140970**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 140843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0634	U	0.200	0.0634	mg/Kg		01/17/24 00:12	01/17/24 13:33	1

**Lab Sample ID: LCS 860-140843/2-A**  
**Matrix: Solid**  
**Analysis Batch: 140970**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 140843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	10.0	10.68		mg/Kg		107	80 - 120

**Lab Sample ID: LCSD 860-140843/3-A**  
**Matrix: Solid**  
**Analysis Batch: 140970**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 140843**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	10.0	10.49		mg/Kg		105	80 - 120	2	20

# QC Association Summary

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

## Metals

### Prep Batch: 140843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11608-1	Black Pearl	Total/NA	Solid	3051A	
MB 860-140843/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-140843/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-140843/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

### Analysis Batch: 140970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11608-1	Black Pearl	Total/NA	Solid	6020B	140843
MB 860-140843/1-A	Method Blank	Total/NA	Solid	6020B	140843
LCS 860-140843/2-A	Lab Control Sample	Total/NA	Solid	6020B	140843
LCSD 860-140843/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	140843



# Lab Chronicle

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

**Client Sample ID: Black Pearl**

**Lab Sample ID: 820-11608-1**

**Date Collected: 01/05/24 15:00**

**Matrix: Solid**

**Date Received: 01/09/24 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.51 g	50 mL	140843	01/17/24 00:12	AGR	EET HOU
Total/NA	Analysis	6020B		10			140970	01/17/24 14:41	DP	EET HOU

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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# Accreditation/Certification Summary

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

## Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

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# Method Summary

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



# Sample Summary

Client: Turf and Ivy Solutions  
Project/Site: Lead Testing

Job ID: 820-11608-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-11608-1	Black Pearl	Solid	01/05/24 15:00	01/09/24 10:00

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Environment Testing  
Xenco

**CERTIFICATE OF ANALYSIS**

Client: Turf and Ivy Solutions  
Product: Black Pearl  
Eurofins Sample #:820-11608-1  
Lead Results: Less than one part per million

Synthetic fibers from turf product Black Pearl, taken by Turf and Ivy on 1/5/2024, and received by Eurofins Labs, 1/9/2024, were analyzed by Eurofins Labs for total lead by method SW6020B. The results were less than one milligram lead per kilogram synthetic fiber (<1 mg/kg).

**Dr. Blair Leftwich, Director**

**Date**

Loc: 820  
11608

# Chain of Custody



Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334  
 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900  
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701  
 Atlanta, GA (770) 449-8800



820-11608 Chain of Custody

www.xenco.com Page      of     

Project Manager: Claudia Cervantes		Bill to: (if different)
Company Name: Turf and Ivy Solutions	Company Name: Same	
Address: 5 Centerpointe Dr, Ste 400,	Address:	
City, State ZIP: Lake Oswego, Oregon 97035	City, State ZIP:	
Phone: 1-888-453-5979	Email: info@turfandivy.com	

Project Name:	Lead Testing	Turn Around
Project Number:	Routine: <input type="checkbox"/>	Rush: <input type="checkbox"/>
Project Location: USA	Rush: <input type="checkbox"/>	Due Date:
Sampler's Name:		
PO #:		

SAMPLE RECEIPT		Temp Blank:		Wet Ice:		Thermometer ID:	
Temperature (°C):	NA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Received Intact:	(Yes) No	Yes No	N/A	Correction Factor:			
Cooler Custody Seals:	Yes No N/A	Yes No N/A	Total Containers:				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
UltraReal	Turf			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Holly Taylor	1/12/24 10:00			

ANALYSIS REQUEST

Preservative Codes	Number of Containers/Preservative
HNO3: HN	
H2SO4: H2	
HCL: HL	
None: NO	
NaOH: Na	
MeOH: Me	
Zn Acetate+ NaOH: Zn	
TAT starts the day received by the lab, if received by 4:30pm	

Sample Comments

1.) Use ASTM method 2.)  
 Need separate reports 3.)  
 Need a certificate of analysis in addition to the report



**Eurofins Lubbock**  
 6701 Aberdeen Ave. Suite 8  
 Lubbock, TX 79424  
 Phone: 806-794-1296

**Chain of Custody Record**



**eurofins**  
 Environment Testing

<b>Client Information (Sub Contract Lab)</b>			Sampler	Lab Pk:	Carrier Tracking No(s):	COC No:
Client Contact	Phone:	Taylor Holly	Lab Pk:	Taylor Holly	Carrier Tracking No(s):	820-8777-1
Company:	Eurofins Environment Testing South Cent	E-Mail:	Holly Taylor@et.eurofins.com	State of Origin:	California	Page 1 of 1
Address:	4145 Greenbriar Dr	Accreditations Required (See note):	NEAAP - Texas	Job #:	820-11608-1	Page 1 of 1
City:	Stafford	Due Date Requested:	1/15/2024	Preservation Codes:	A HCl B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O As2O2 P Na2OAS Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
State, Zip:	TX 77477	TAT Requested (days):		Other:		
Phone:	281-240-4200(Tel)	PO #:				
Email:		W/O #:				
Project Name:	Lead Testing	Project #:	82000176			
Site:		SSOW#:				
<b>Sample Identification - Client ID (Lab ID)</b>						
Black Pearl (820-11608-1)	1/9/24	Pacific	Solid	Matrix (W-water, S-solid, O-organic, A-Asid)	6020B/3051A (MOD) Custom List	Special Instructions/Note: Heu309 21 21
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p> <p><b>Possible Hazard Identification</b></p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Deliverable Requested: I, II, III, IV Other (specify) _____ Primary Deliverable Rank: 2 Special Instructions/QC Requirements: _____</p> <p>Empty Kit Relinquished by _____ Date: _____ Time: _____ Method of Shipment _____</p> <p>Relinquished by: _____ Date/Time: 1/9/24 1708 Company _____ Received by: _____ Date/Time: 1/10/2024 10:17 Company EX</p> <p>Relinquished by: _____ Date/Time: _____ Company _____ Received by: _____ Date/Time: _____ Company _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: _____</p>						





# Login Sample Receipt Checklist

Client: Turf and Ivy Solutions

Job Number: 820-11608-1

**Login Number: 11608**  
**List Number: 1**  
**Creator: Triplett, Colby**

**List Source: Eurofins Lubbock**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No date or time on COC or containers.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	N/A	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



# Login Sample Receipt Checklist

Client: Turf and Ivy Solutions

Job Number: 820-11608-1

**Login Number: 11608**

**List Number: 2**

**Creator: Baker, Jeremiah**

**List Source: Eurofins Houston**

**List Creation: 01/10/24 02:57 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	